

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-18 (Canceled)

Claims 19-22 (Canceled)

23. (New) Extruded profiled element based on a cross-linkable rubber composition, the profiled element constituting in the cross-linked condition in a tread for a tire and being delimited in width by two lateral faces which interconnect radially inner and outer faces of the tread, an electrical conducting arrangement provided in the profiled element to connect the inner face electrically to the outer face between the lateral faces and all along the length of the profiled element, the remainder of the profiled element comprising an electrically insulating material, the conducting arrangement, viewed in a cross-section of the profiled element, having a layered structure comprising electrically conducting layers which are generally concentric and describe a plurality of turns essentially around the longitudinal axis of symmetry of the profiled element, and which have a curvature in the direction of at least one of the inner and outer faces, and at least one of the layers emerging at the surface of the outer face, characterized in that the conducting layers describe a number of turns in the range of about 30 to 70.

24. (New) Extruded profiled element according to claim 23, characterized in that the electrically conducting layers are globally wound in a spiral around the longitudinal axis and, viewed in a cross-section of the profiled element, the layers have essentially the shape of an arc of a flattened ellipse whose major axis corresponds to the transverse direction of the profiled element.

25. (New) Extruded profiled element according to claim 24, characterized in that the electrically conducting layers, along the length of the profiled element have a filamentary shape comprising a plurality of helicoidal filaments ($F_j(j=1 \text{ to } m)$) which are centered on the axis.

26. (New) Extruded profiled element according to claim 25, characterized in that along the length of the profiled element, the filamentation comprises a succession of identical sections ($T_i(i=1 \text{ to } n)$) each comprising a plurality of conical filaments ($F_j(j=1 \text{ to } m)$) inscribed on cone sections substantially parallel to one another and centered on the axis.

27. (New) Extruded profiled element according to claim 26, characterized in that each conical filament (F_j) of each of said sections (T_i) is inscribed on a cone section that converges towards the in side of the cone section on which the same conical filament (F_j) of an immediately consecutive section (T_{i+1}) is inscribed.

28. (New) Profiled element according to claim 27 characterized in that the mass fraction of the insulating material is equal to or greater than 80% of the mass of

the profiled element and the mass fraction of the conducting arrangement is less than or equal to 20% of the mass of the profiled element.

29. (New) Extruded profiled element according to claim 23 characterized in that the electrically conducting layers each have a thickness substantially in the range of 0.05 to 0.15 mm.

30. (New) Extruded profiled element according to claim 23 characterized in that at least one of the electrically conducting layers emerges at the surface of one of each lateral face of the profiled element.

31. (New) Extruded profiled element according to claim 23 characterized in that the conducting arrangement also comprises a conducting film at a location of one or of each lateral face of the profiled element.

32. (New) Extruded profiled element according to claim 23, characterized in that the conducting arrangement comprises a rubber composition having an electrical resistivity lower than $10^8 \Omega \cdot \text{cm}$, and containing carbon black.

33. (New) Cross-linkable or cross-linked tread for a tire, comprising an extruded profiled element according to Claim 23.

34. (New) A tire comprising a cross-linked tread according to claim 33.